PCI	E Company	receiving Office use only
REQUEST	International Application	·
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Offi	ce and "PCT International Application"
	Applicant's or agent's f (if desired) (12 charact	583/5 DE 1
Box No. I TITLE OF INVENTION SMALL TECHNETIUM-99M AND RHENIUM LABEI TISSUES, ORGANS AND TUMORS	LED AGENTS AND 1	METHODS FOR IMAGING
Box No. II APPLICANT This person	n is also inventor	
Name and address: (Family name followed by given name; for a legal entity, The address must include postal code and name of country. The country of the ac	ldress indicated in this	Telephone No.
Box is the applicant's State (that is, country) of residence if no State of residence if PRESIDENT AND FELLOWS OF HARVARD COLLEGE 17 Quincy Street Cambridge, MA 02138	is indicated below.)	Facsimile No.
United States		Teleprinter No.
		Applicant's registration No. with the Office
State (that is, country) of nationality: US	State (that is, countr	y) of residence:
This person is applicant all designated for the purposes of: all designated States all designated the United	ted States except States of America	the United States the States indicated in the Supplemental Box
Box No. III FURTHER APPLICANT(S) AND/OR (FUR	RTHER) INVENTOR(S	5)
Name and address: (Family name followed by given name; for a legal entity, The address must include postal code and name of country. The country of the a Box is the applicant's State (that is, country) of residence if no State of residence MASSACHUSETTS INSTITUTE OF TECHNOLOGY 5 Cambridge Center Room NE 25-230 Kendall Square, Cambridge, MA 02142-1493 United States	ddress indicated in this	This person is:
State (that is, country) of nationality: US	State (that is, count	try) of residence:
This person is applicant all designated all designated for the purposes of: States all designated	ated States except I States of America	the United States the States indicated in the Supplemental Box
Further applicants and/or (further) inventors are indicated	on a continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATION	VE; OR ADDRESS FO	OR CORRESPONDENCE

ALEXANDER, Ph.D., John B.
EDWARDS & ANGELL, LLP
P.O. Box 9169
Boston, MA 02209
United States

Name and address: (Family name followed by given name; for a legal entity, full official designation.

The address must include postal code and name of country.)

The person identified below is hereby/has been appointed to act on behalf

of the applicant(s) before the competent International Authorities as:

Telephone No. (617) 439-4444

Facsimile No. (617) 439-4170

Teleprinter No.

agent

Agent's registration No. with the Office 48,399

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

common representative

Sheet No.	2
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Continuation of Box No. III FURTHER APPLICANTS AND/OR (FÜRTHER) INVENTOR(S)				
If none of the following sub-boxes is used, this sheet should n	ot to be included in	the request.		
Name and address: (Family name followed by given name; for a legal entity, ful The address must include postal code and name of country. The country of the addr	State (that is, countr US States except ates of America Usflictal designation.	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office the United States the States indicated in of America only the Supplemental Box This person is:		
Box is the applicant's State (that is, country) of residence if no State of residence is in CHENG, Zhen 2200 California Street, Apt. 26 Mountain View, CA 94040 United States	applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality: China	State (that is, count US	ry) of residence:		
This person is applicant all designated all designated for the purposes of:	d States except tates of America	the United States the States indicated in of America only the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity, further address must include postal code and name of country. The country of the address must include postal code and name of country. The country of the address is the applicant's State (that is, country) of residence if no State of residence is JONES, Alun G. 50 Manemet Road Newton Center, MA 02459	dress indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, country) of nationality: GB	State (that is, cour	ntry) of residence:		
	US ed States except States of America	the United States the States indicated in the Supplemental Box		
Name and address: (Family name followed by given name; for a legal entity, for the address must include postal code and name of country. The country of the ad Box is the applicant's State (that is, country) of residence if no State of residence is DAVISON, Alan 190 Alder Lane North Falmouth, MA 02556	full official designation. Idress indicated in this	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, country) of nationality: US	State (that is, could US	ntry) of residence:		
This person is applicant all designated all designated for the purposes of: all designated the United	ted States except States of America	the United States the States indicated in the Supplemental Box		
Further applicants and/or (further) inventors are indicated of	on another continuatio	n sheet.		

Box No.V	DEST	GNAT	ION (OF S	TAT	ជទ
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Mark the applicable check-boxes below; at least one must be marked.

The following designations are hereby made under Rule 4.9(a):

Regional Patent -

- AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, MZ Mozambique, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZM Zambia, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT (if other kind of protection or treatment desired. specify on dotted line)
- EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of
- European Patent: AT Austria, BE Belgium, BG Bulgaria, CH & LI Switzerland and Liechtenstein, CY Cyprus, CZ Czech Republic, DE Germany, DK Denmark, EE Estonia, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, HU Hungary, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, RO Romania, SE Sweden, SI Slovenia, SK Slovakia, TR Turkey, and any other State which is a Contracting State of the European Patent Convention and of the PCT
- A OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GQ Equatorial Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line

National Patent (if other kind of protection or treatment desired, specify on dotted line):							
\boxtimes	AE	United Arab Emirates	\boxtimes	HR	Croatia	🛛 OM	1 Oman
区		Antigua and Barbuda	X	HU	Hungary	🛛 PG	Papua New Guinea
X	AL	Albania	X	ID	Indonesia	🛛 PH	Philippines
	AM	Armenia	X	IL	Israel	🛛 PL	Poland
⋈	AT	Austria	\boxtimes	IN	India	🛛 PT	Portugal
⊠	AU	Australia	\boxtimes	IS	Iceland	🛛 R() Romania
Ø	AZ	Azerbaijan	\boxtimes	JP	Japan	🛛 RI	J Russian Federation
	BA	Bosnia and Herzegovina	\boxtimes	KE	Kenya		
Ø	BB	Barbados	\boxtimes	KG			Seychelles
	BG	Bulgaria	\boxtimes	KP	Democratic People's Republic	⊠ sī	Sudan .
	BR	Brazil			of Korea	⊠ SI	2 Sweden
	BY	Belarus	\boxtimes	KR	Republic of Korea	\boxtimes so	G Singapore
	\mathbf{BZ}	Belize	\boxtimes	KZ	Kazakhstan	⊠ SI	C Slovakia
×	CA	Canada .	\boxtimes	LC	Saint Lucia	⊠ SI	Sierra Leone
×	CH &	LI Switzerland and Liechtenstein	\boxtimes	LK	Sri Lanka	⊠ SY	Y Syrian Arab Republic
	CN	China	\boxtimes	LR	Liberia	⊠ T.	Tajikistan
	CO	Colombia	\boxtimes	LS	Lesotho	X T	M Turkmenistan
		Costa Rica	\boxtimes	LT	Lithuania		N Tunisia
		Cuba	\boxtimes	LU	Luxembourg	X T	R Turkey
	CZ	Czech Republic		LV	Latvia	X T	T Trinidad and Tobago
, —	DE.	Germany		MA	Мотоссо		
	DK	Denmark	\boxtimes	MD	Republic of Moldova	⊠ T	Z United Republic of Tanzania
. —	DM	Dominica				X U	A Ukraine
	DZ	Algeria	\boxtimes	MG	Madagascar	×υ	G Uganda
	EC	Ecuador	\boxtimes	MK	The former Yugoslav Republic of	×Ωυ	S United States of America
	EE	Estonia			Macedonia		
	ES	Spain	\boxtimes	MN	Mongolia	⊠u	Z Uzbekistan
	FI	Finland	\boxtimes	MV	V Malawi	$\boxtimes v$	C Saint Vincent and the Grenadines
	GB	United Kingdom	\boxtimes	MX	Mexico	⊠v	N Viet Nam
	GD	Grenada	\boxtimes	MZ	Mozambique	X Y	U Serbia and Montenegro
⊠	GE	Georgia	X	NI	Nicaragua	⊠ 2	A South Africa
E	GH	Ghana	X	NO	Norway	$\boxtimes 2$	ZM Zambia
E	GM	Gambia	X	NZ	New Zealand	× 2	ZW Zimbabwe
Check-boxes below reserved for designating States which have become party to the PCT after issuance of this sheet:							

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation (including fees) must reach the receiving Office within the 15-month time limit.)

All countries added since printing.

Supplemental Box

(i)

(iii)

(vi)

2.

If the Supplemental Box is not used, this sheet should not be included in the request.

If, in any of the Boxes, except Boxes Nos VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No...." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:

if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below; (ii)

if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;

if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) LAURO, Peter C. (and/or, where applicable, ARIPO, Eurasian, European or OAPI KITCHELL, Barbara patent) for the purposes of which the named person is inventor;

(iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;

if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or if, in Box No. V, the name of the United States of America is accompanied by an indication "continuation" or "continuation-in-part": in such case, write "Continuation of Box No. V" and the name of each State involved (or OAPI), and after the name of each such State (or OAPI), the number of the parent title or parent application and the date of grant of the parent title or filing of the parent application;

if, in Box No. VI, there are more than five earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.

If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the name or two-letter code of each State so excluded.

Continuation of Box IV:

CONLIN, David G. NEUNER, George BUCKLEY, Linda M. CORLESS, Peter F. MANUS, Peter J. DALEY, Jr., William J. BUCHANAN, Robert L. O'DAY, Christine C. HAZZARD, Lisa S. TUCKER, David A. HARTNELL III, George W. ALEXANDER, John B. JENSEN, Steven M. PIFFAT, Kathryn A. ROOS, Richard J. MANSO, Peter J. REES, Dianne M. GITTEN, Howard M. PENNY, Jr., John J. KONIECZNY, J. Mark ROSENFIELD, Jennifer K. BUTLER, Gregory B. KRAMER, Barry COUGHLÍN, Dániel F. WOFSY, Scott D. CHACLAS, George N. NEWMAN, Richard H. SILVIA, David J. HEUSCH, Marina I. LAURO, Peter C.

The above attorneys are all members of the firm: EDWARDS & ANGELL, LLP P.O. Box 9169 Boston, Massachusetts 02209

Sheet	NIa		:	5	

Box No. VI PRIORITY C	LAIM	,	-	1875a
The priority of the following ear	lier application(s) is hereby	claimed:		
Filing date	Number	V	Where earlier application	is:
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) 08/11/2002	60/424,980	US		
item (2)		-		
item (3)				
item (4)				
item (5)				
Further priority claims are	e indicated in the Suppleme	ntal Box.		
The receiving Office is reque (only if the earlier applicatio Office) identified above as:	sted to prepare and transm n was filed with the Office	it to the International Bu which for the purposes	reau a certified copy of of this international ap	f the earlier application(s) pplication is the receiving
all items item (1) item (2) .	item (3) item (4) [item (5)	other, see Supplemental Box
* Where the earlier application Industrial Property or one Memb	is an ARIPO application, ind er of the World Trade Organiz	licate at least one country ation for which that earlier	party to the Paris Conven application was filed (Rule	tion for the Protection of 4.10(b)(ii)):
Box No. VII INTERNAT	IONAL SEARCHING AU	UTHORITY		
Choice of International Sea international search, indicate the	rching Authority (ISA) (i Authority chosen; the two-lette	f two or more Internations er code may be used):	al Searching Authorities a	re competent to carry out the
ISA/ us				
Request to use results of ea	rlier search; reference to			
Date (day/month/year)	Number	Country (or re	egional Office)	l l
	TYONG.			
Box No. VIII DECLARA	TIONS			
The following declarations a check-boxes below and indica	are contained in Boxes Nosate in the right column the r	s. VIII (i) to (v) (mark th number of each type of de	ne applicable eclaration):	Number of declarations
Box No. VIII (i)	Declaration as to the iden	tity of the inventor		:
Box No. VIII (ii)	Declaration as to the appl date, to apply for and be		the international filing	:
Box No. VIII (iii)	Declaration as to the appl date, to claim the priority			:
Box No. VIII (iv)	Declaration of inventorsh United States of America	nip (only for the purposes	of the designation of the	e :
Box No. VIII (v)	Declaration as to non-pre	ejudicial disclosures or ex	cceptions to lack of nove	elty :

Box No. IX CHECK LIST; LANGUAGE OF	FILING	
This international application contains:	This international application is accompanied by the following	Number
(a) in paper form, the following number of	item(s) (mark the applicable check-boxes below and indicate in	of items
sheets:	right column the number of each item): Image: Research item Research item	
request (including declaration sheets) : 6	· · · · · · · · · · · · · · · · · · ·	: 1
description (excluding	2. Original separate power of attorney	:
sequence listings and/or	3. Original general power of attorney	:
tables related thereto) : 68	4. copy of general power of attorney; reference number,	
claims : 20 abstract : 1	if any: 5. statement explaining lack of signature	. : 1
drawings : 13	6. priority document(s) identified in Box No. VI as	
	item(s):	:
Sub-total number of sheets : 108	7. Translation of international application into	
sequence listings :	(language):	• .
tables related thereto :	8. separate indications concerning deposited microorganism or other biological material	
(for both, actual number of sheets if filed in paper form,	9. sequence listings in computer readable form	•
whether or not also filed in	(indicate type and number of carriers)	
computer readable form; see (c) below)	(i) copy submitted for the purposes of international search	h .
` 	under Rule 13ter only (and not as part of the internation)	onal .
Total number of sheets : 108 " (b) only in computer readable form	•• ,	
(Section 80I(a)(i))	(ii) (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable	<u>,</u>
(i) sequence listings	the copy for the purposes of international search under Rule 13ter	r .
(ii) tables related thereto	together with relevant statement as to the identity of the	пе сору
(c) also in computer readable form (Section 801(a)(ii))	or copies with the sequence listings mentioned in left	columi :
(i) sequence listings	10. Tables in computer readable form related to sequence list	ings
(ii) tables related thereto	(indicate type and number of carriers)	
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are	(i) copy submitted for the purposes of international searce Section 802(b-quater) only (and not as part of the	h under
CD-ROM, CD-R or other) on which are contained the	international application)	
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(additional copies to be indicated under	(iii) together with relevant statement as to the identity of to or copies with the tables mentioned in left column	he copy
items 9(ii) and/or 10(ii), in right column)		:
	11. Other (specify):	
Figure of the drawings which	Language of filing of the	
should accompany the abstract:	international application: ENGLISH	
Box No. X SIGNATURE OF APPLICANT,	AGENT OR COMMON REPRESENTATIVE and the capacity is not obvious from readi	
010.1	and the cupacity in which the person signs (if such capacity is not obvious from readi	ng the request).
Clarifing Malmord	Hen 2 J-	
Ashfad MAHNOOD Zhen CHE	NG Alun G. JONES	
7		·
Alex DAVICON		
Alan DAVISON John	B. ALEXANDER, Ph.D., Agent for Applicant	
1 Date of actual and in St.	For receiving Office use only	
Date of actual receipt of the purported international application:		2. Drawings:
 Corrected date of actual receipt due to later timely received papers or drawings complete 	but ·	received:
purported international application:	ng the	
4. Date of timely receipt of the required corrections under PCT Article 11(2):	·	not received:
corrections under PC1 Afficie 11(2):		
5. International Searching Authority	6. Transmittal of search copy delayed	
(if two or more are competent): ISA/	6. Transmittal of search copy delayed until search fee is paid	
, and the property of the second		
	For International Bureau use only	
Date of receipt of the record copy		
by the International Bureau:		

Box No. IX CHECK LIST; LANGUAGE OF	FILING	
This international application contains:	This international application is accompanied by the following	Number
(a) in paper form, the following number of	item(s) (mark the applicable check-boxes below and indicate in	of items
sheets:	right column the number of each item): 1. fee calculation sheet	
request (including declaration sheets) : 6	2. original separate power of attorney	. '
description (excluding		
sequence listings and/or		•
tables related thereto) : 68 claims : 20	4. copy of general power of attorney, reference number, if any:	:
abstract : 1	5. statement explaining lack of signature	:
drawings : 13	6. priority document(s) identified in Box No. VI as	
Sub-total number of sheets : 108	item(s):	•
Dub total dumber of sheets	7. Translation of international application into (language):	:
sequence listings : tables related thereto :	8. separate indications concerning deposited microorganism	•
(for both, actual number of	or other biological material	:
sheets if filed in paper form,	 g. sequence listings in computer readable form (indicate type and number of carriers) 	
whether or not also filed in computer readable form; see	(i) copy submitted for the purposes of international search	h
(c) below) :	under Rule 13ter only (and not as part of the internation	onal
Total number of sheets : 108	application)	•
(b) only in computer readable form (Section 801(a)(i))	(ii) (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable	,
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	11. other (specify):	
Figure of the drawings which	Language of filing of the	
should accompany the abstract:	international application: ENGLISH	
Box No. X SIGNATURE OF APPLICANT,	AGENT OR COMMON REPRESENTATIVE	
Next to each signature, indicate the name of the person signing of	and the capacity in which the person signs (if such capacity is not obvious from read	ing the request).
Ashfaq MAHMOOD Zhen CHE	NG Alun G. JONES	
Alon Daison		
Alan DAVISON John	B. ALEXANDER, Ph.D., Agent for Applicant	
Date of actual receipt of the purported	For receiving Office use only	2 Description
international application:		2. Drawings:
2. Corrected data of actual receipt due to letter		received:
Corrected date of actual receipt due to later timely received papers or drawings complete		L received:
purported international application:		
4. Date of timely receipt of the required		not received:
corrections under PCT Article 11(2):		
5. International Searching Authority (if two or more are competent): ISA/	6. Transmittal of search copy delayed	
(if two or more are competent): ISA/	until search fee is paid	
	For International Bureau use only	
Date of receipt of the record copy		
by the International Bureau:		

		Shee	t No		.,
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Box No. IX CHECK LIST; LANGUAGE OF	FILING	- /
This international application contains: (a) in paper form, the following number of	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in	Number of items
sheets:	right column the number of each item):	
request (including .	1. A fee calculation sheet	: 1
declaration sheets) : 6	2. 1 original separate power of attorney	:
description (excluding sequence listings and/or	3. original general power of attorney	: 1 .
tables related thereto) : 68	4. copy of general power of attorney; reference number,	
claims : 20	if any: if any:	:
abstract : *1	5. Statement explaining lack of signature	:
drawings : 13	6. priority document(s) identified in Box No. VI as item(s):	:
Sub-total number of sheets : 108	7 Translation of international application into	
sequence listings :	(language):	•
tables related thereto : (for both, actual number of	or other biological material	· : -
sheets if filed in paper form,	9 Sequence listings in computer readable form (indicate type and number of carriers)	
whether or not also filed in computer readable form; see	(i) copy submitted for the purposes of international search	
(c) below)	under Rule 13ter only (and not as part of the international	
Total number of sheets : 108	application)	•
(b) only in computer readable form (Section 80 l(a)(i))	(ii) (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under	
(i) sequence listings	Rule 13ter	:
(ii)	(iii) together with relevant statement as to the identity of the coor copies with the sequence listings mentioned in left col	opy
(c) also in computer readable form (Section 801(a)(ii))		,
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(ii) tables related thereto	m Daniel Santania Santania	nder
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	Section 802(b-quater) only (and not as part of the international application)	:
sequence listings:	(ii) (only where check-box (b)(ii) or (c)(ii) is marked in left	
tables related thereto:	 (ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater) 	ne on
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	(iii) together with relevant statement as to the identity of the or copies with the tables mentioned in left column	copy :
	11. other (specify):	
Figure of the drawings which should accompany the abstract:	Language of filing of the international application: ENGLISH	•
Box No. X SIGNATURE OF APPLICANT,	AGENT OR COMMON REPRESENTATIVE	
	and the capacity in which the person signs (if such capacity is not obvious from reading t	he request).
O- Phone D	2	
President and Fellows Of H		e of
0. Prem Das	Technology	
Director, Office of Techno	ology Licensing Name:	1
& Industry Sponsored Resea	rch Title:	
Harvard Medical School		
	For receiving Office use only	
Date of actual receipt of the purported international application:		2. Drawings:
3. Corrected date of actual receipt due to later timely received papers or drawings complet purported international application:	but ing the	received:
4. Date of timely receipt of the required		not received:
corrections under PCT Article 11(2):		
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Box No. IX CHECK LIST; LANGUAGE OF	FILING			
This international application contains:	This international application is accompanied by the following	Number		
(a) in paper form, the following number of	item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	of items		
sheets:	ight column the number of each item): [1] The fee calculation sheet			
request (including declaration sheets) : 6	2. original separate power of attorney			
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sequence listings and/or	4. Copy of general power of attorney; reference number,	•		
tables related thereto) : 68 claims : 20	if any:	:		
abstract : 1	5. statement explaining lack of signature	:		
drawings : 13	6. priority document(s) identified in Box No. VI as			
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tables related thereto :	8. separate indications concerning deposited microorganism or other biological material			
(for both, actual number of	9. sequence listings in computer readable form	: ,		
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Figure of the drawings which	11. Oother (specify):	•••		
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Box No. X SIGNATURE OF APPLICANT,	AGENT OR COMMON REPRESENTATIVE			
Next to each signature, indicate the name of the person signing a	and the capacity in which the person signs (if such capacity is not obvious from readi	pg the request).		
	Ota H Filipi	oca)		
President and Fellows Of Ha	rvard College Massachusetts Institu	ute of		
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Applicant's or agent's file reference	58345 PCT	Date stamp of the receiving Office			
Applicant PRESIDENT AND FELLOW	S OF HARVARD COLLEGE and	MASSACHUSETTS INSTITUTE OF			
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2. SEARCH FEE International search to be ca	rried out by	700.00 S			
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The designation fees ar	e not paid at this time.				
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★ cheque 2796.00		revenue stamps other (specify):			
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT (This mode of payment may not be available at all receiving Offices) Receiving Office: RO/US					
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(This check-box may b	ne marked only if the conditions for d	Peposit accounts of Date: 08 November 2003			
the receiving Office so permit) Authorization to charge any deficiency of credit any overpayment in the total fees indicated above. Name: John B. Alexander, Ph.D.					

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Authorization to charge the fee for priority document.

See Notes to the fee calculation sheet

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REQUEST

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International Application No. 15 0 3 / 3 5 6 1 5				
International Filing Date 18 NOV 2003				
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Name of receiving Office and "PCT International Application"				

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty. Applicant's or agent's file reference 58345 PCT (if desired) (12 characters maximum) Box No. 1 TITLE OF INVENTION SMALL TECHNETIUM-99M AND RHENIUM AGENTS AND METHODS FOR IMAGING TISSUES, ORGANS, AND TUMORS Box No. II APPLICANT This person is also inventor Name and address: (Family name followed by given name; for a legal entity, full official designation. Telephone No. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) PRESIDENT AND FELLOWS OF HARVARD COLLEGE Facsimile No. 17 Quincy Street Cambridge, MA 02138 United States 4 Of America Teleprinter No. Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: US This person is applicant for the purposes of: all designated States all designated States except the United States the States indicated in the United States of America of America only the Supplemental Box FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Name and address: (Family name followed by given name; for a legal entity, full official designation. This person is: The address must include postal code and name of country. The country of the address indicated in this applicant only Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) MASSACHUSETTS INSTITUTE OF TECHNOLOGY applicant and inventor 5 Cambridge Center Room NE 25-230 inventor only (If this check-box Kendall Square, Cambridge, MA 02142-1493 is marked, do not fill in below.) United States AOF Aherica Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: US This person is applicant all designated States except all designated the United States the States indicated in for the purposes of: the United States of America of America only the Supplemental Box Further applicants and/or (further) inventors are indicated on a continuation sheet. Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE The person identified below is hereby/has been appointed to act on behalf X agent common representative of the applicant(s) before the competent International Authorities as: Name and address: (Family name followed by given name; for a legal entity, full official designation. Telephone No. The address must include postal code and name of country.) (617) 439-4444 ALEXANDER, Ph.D. . John B. EDWARDS & ANGELL, LLP Facsimile No. P.O. Box 9169 (617) 439-4170 Boston, MA 02209 United States 40 F America Teleprinter No. Agent's registration No. with the Office 48,399 Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

Continuation of Box No. III FURTHER APPLICANTS AND/OR (FURTHER) INVENTOR(S)				
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Name and address: (Family name followed by given name; for a legal entity, full The address must include postal code and name of country. The country of the address is the applicant's State (that is, country) of residence if no State of residence is in MAHMOOD, Ashfaq 161 Summer Sireet Newton Center, MA 02459 **State** (that is, country) of nationality: Pakistan This person is applicant all designated states the United St Name and address: (Family name followed by given name; for a legal entity, furthe address must include postal code and name of country. The country of the address is the applicant's State (that is, country) of residence if no State of residence is CHENG, Zhen 2200 California Street, Apt. 26	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office the United States of America only the States indicated in of America only the Supplemental Box This person is:			
Mountain View, CA 94040 United States • OF America		applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office		
State (that is, country) of nationality: China	(ry) of residence:			
This person is applicant all designated all designated States except for the purposes of: all designated States all designated States of America only the United States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a legal entity, fithe address must include postal code and name of country. The country of the address is the applicant's State (that is, country) of residence if no State of residence is JONES, Alun G. 50 Manemet Road Newton Center, MA 02459	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality: GB State (that is, cou		ntry) of residence:		
This person is applicant for the purposes of: all designated states except the United States of America only the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a legal entity,) The address must include postal code and name of country. The country of the ad Box is the applicant's State (that is, country) of residence if no State of residence is DAVISON, Alan 190 Alder Lane North Falmouth, MA 02556	This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office			
State (that is, country) of nationality: US	State (that is, cou. US	ntry) of residence:		
This person is applicant all designated all designated for the purposes of: States all designated the United	ted States except States of America	the United States the States indicated in the Supplemental Box		
Further applicants and/or (further) inventors are indicated on another continuation sheet.				